

ABSTRACT

An impeller assembly, chopping pump, method of operation, and method of converting an existing pump into the chopping pump. The chopping pump includes a pump housing for enclosing a pumping chamber, the pump housing having an inlet flange through which a fluid is to be introduced into the pumping chamber at a first pressure, and an outlet flange through which the fluid is to be discharged from the pumping chamber at a second pressure, the pump further including a rotatable shaft that is to be operatively coupled to a pump driving device. The impeller assembly includes a cutter bar to be coupled to the pump housing adjacent to the inlet flange, and an impeller for imparting a centrifugal force on fluid entering the pumping chamber, the impeller being mountable on the shaft at a distance from the cutter bar when the cutter bar is coupled to the pump housing to form a clearance between the impeller and the cutter bar.